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Title	Description of a new Species of Simuliidae from Nippon, with other Notes
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Citation	INSECTA MATSUMURANA, 15(3): 86-88
Issue Date	1941-03
Doc URL	http://hdl.handle.net/2115/9466
Right	
Type	bulletin
Additional Information	



Instructions for use

DESCRIPTION OF A NEW SPECIES OF *SIMULIIDAE* FROM NIPPON, WITH OTHER NOTES*

By

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(With 1 figure)

Odagmia aokii n. sp.

♀. Length, 3 mm.; wing, 3.2 mm.

Frons somewhat quadrate, shining, black. Face oval, with silvery white tomentum. Proboscis and palpi dark brown. The 5th segment of the maxillary palpi very long, about 2.5 times as long as the 4th. Antennae 11-jointed, black with the basal two annulations orange-yellow and entirely covered with silvery white pubescence. Thorax shiny greenish black, entirely obscured by a grayish dust especially on the fore and lateral margins, and covered with golden yellow pubescence, with no stripe. Humerus slightly brown. Pleura slate-gray, without a patch of soft hairs on the membrane behind the thoracic spiracles. Scutellum shiny black with golden hairs. Halteres white. Abdominal tergites brown, the hairs of the basal segment pale yellow; second segment more or less yellowish. Tergites 3-5 with oval velvety black spots; tergites 5-8 shining, black with fine black hairs. Venter pale brown. Fore coxae pale yellow. Fore and middle femora yellow with the apical 1/5 brown. Fore tibiae pale brown with a usual patch of silvery gray dusting on its outer margin. Fore tarsi black, flattend. Middle and hind coxae brown. Middle tibiae clear yellow with the apical 1/3 brown; basal half of the first joint of middle tarsi clear yellow, the other part brown. Hind femora somewhat brownish yellow, with the apical 1/5 brown; the apical half of the hind tibiae brown, hind tarsi brown, with the basal half of the metatarsi pale yellow. In some specimen, the yellow part of the legs suffused with brown. Calcipala present and pedisulcus distinct. All claws with rectangular small tooth. Relative length of femora, tibiae and tarsi (1st:2nd:3rd:4th:5th) as follows: fore leg—40:45:66(32:13:10:5:6); middle leg—42:40:48(25:8:5:4:6); hind leg—58:

*This report is a part of the studies for the Foundation for the Promotion of Science and Industrial Research of Japan.

46:69 (42:10:6:5:6). Wings lacking the basal cell; radial vein bare between the stem and base of radial sector. The hairs on costal vein somewhat denser than those of *O. bidentata* SHIRAKI. Terminalia: eighth sternite with a median chitinated area. Paraproctes large, quadrated, with long bristles. Cerci about half the length of the paraproctes and darker than the latter.

Holotype (♀): Tuyutani, Tottori-ken, 3/I, 1940, H. AOKI.

Paratype: 5 ♀ ♀, the same data.

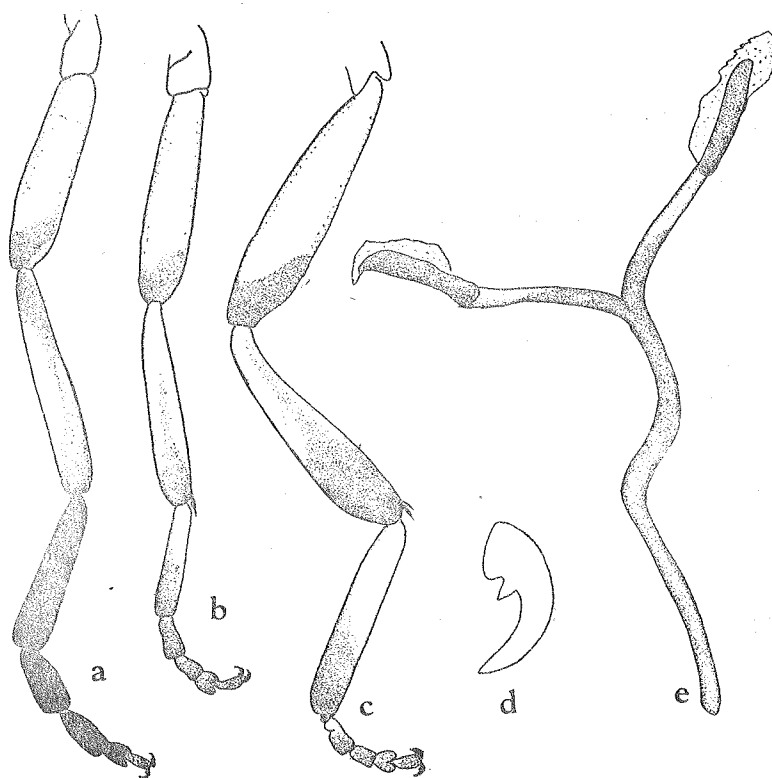


Fig. 1. *Odagnia aokii* n. sp.

a: Fore leg; b: Middle leg; c: Hind leg; d: Claw of hind leg; e: Genital fork.

The type-specimens are deposited in the Entomological Institute of the Hokkaido Imperial University, Sapporo.

Habitat: Nippon (Honsyu).

The present species is easily distinguished from the related species, *O.*

bidentata SHIRAKI, and *O. japonica* SHIRAKI, in having a large size and a marking of metatarsi which is the apical half brown.

***Odagmia bidentata* SHIRAKI**

Odagmia bidentata SHIRAKI, Mem. Fac. Sci. Agr., Taihoku Imp. Univ., XVI, 1, pp. 33, 34, Pl. IV, fig. 6, Pl. IX, fig. 11, Pl. X, figs. 10-13 (1935).

Habitat: Tuyutani, Tottori-ken, 5 ♀ ♀, 3/I, 1940, H. AOKI.

Gen. Dist.: Nippon (Honsyu).

***Odagmia japonica* SHIRAKI**

Odagmia japonica SHIRAKI, Mem. Fac. Sci. Agr., Taihoku Imp. Univ., XVI, 1, pp. 34, 45, Pl. IV, fig. 3, Pl. XI, figs. 1-5 (1935).

Habitat: Tuyutani, Tottori-ken, 4 ♀ ♀, 5/VI, 1940, H. AOKI.

Gen. Dist.: Nippon (Honsyu).

***Simulium japonicum* MATSUMURA**

Simulium columbatzensis MATSUMURA, Journ. Col. Agr., Tohoku Imp. Univ., IV, 1, p. 62 (1911) (nec SCHINER, 1864).

Simulium colobatzensis MATSUMURA, Konchu Bunruigaku, II, p. 50, Pl. II, fig. 3 (1915); MATSUMURA, Dai Nippon Gaichu Zensho, II, p. 84 (1921).

Simulium japonicum MATSUMURA, 6000 Ill. Ins. Jap. Emp., p. 407, fig. 291 (1931); KÔNO et TAKAHASI, Ins. Mats., XIV, p. 81 (1940).

Simulium annulipes SHIRAKI, Mem. Fac. Sci. Agr., Taihoku Imp. Univ., XVI, 1, pp. 48, 49, Pl. IV, fig. 1, Pl. XII, figs. 8-14 (1935).

Habitat: Tuyutani, Tottori-ken, 2 ♀ ♀, 3/I, 1940, H. AOKI.

Gen. Dist.: Nippon (Karafuto; Hokkaido; Tisima; Honsyu).

This species is new to Honsyu.

***Simulium nipponense* SHIRAKI**

Simulium nipponense SHIRAKI, Mem. Fac. Agr., Taihoku Imp. Univ., XVI, 1, pp. 48, 59, Pl. II, fig. 6, Pl. XIII, figs. 1-6 (1935); KÔNO et TAKAHASI, Ins. Mats., XIV, p. 81 (1940).

Habitat: Tuyutani, Tottori-ken, 6 ♀ ♀, 3/I, 1940, H. AOKI; 10 ♀ ♀, 10/VII, 1940, H. AOKI.

Gen. Dist.: Nippon (Hokkaido; Honsyu).

Here the author wishes to express his sincere thanks to Mr. H. AOKI for the interesting material.